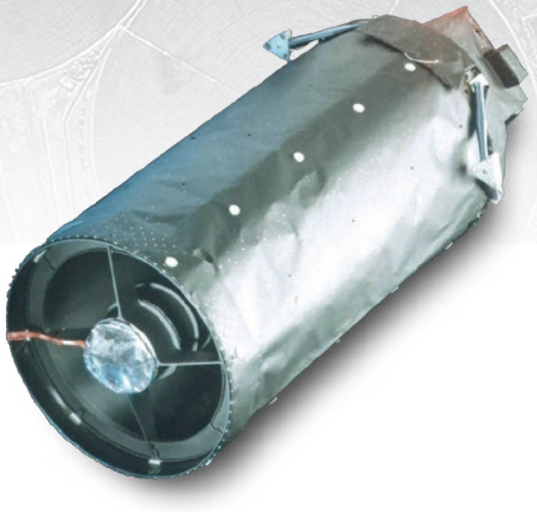
MERCURY

Earth Global Monitoring Satellite



The MERCURY remote sensing camera provides real-time, detailed high resolution, panchromatic images of broad geographical areas. The reliable and proven MERCURY is integrated in the EROS A satellite that was launched in December 2000 and is still fully operational.

The EROS A satellite is the first in a family of Earth Global Monitoring systems, operated by ImageSat International N.V.

MERCURY is a modular, lightweight, low power camera which is easily integrated in LEO small/micro, lightweight satellites.

Features

- Orbits in a polar orbit at an altitude of ~500 km.
- Provides panchromatic images with a 1.9 m resolution or 1-1.4
- meter resolution with hyper-sampling techniques.

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Applications

The MERCURY camera provides high spatial resolution earth imaging and mapping for a wide range of security/ military and civilian applications:

- **Thematic surveys**
  - Military surveillance and reconnaissance
  - I&W
  - Situational awareness
  - Operational planning
  - BDA
- **Civilian applications**
  - Homeland security
  - Emergency planning and operations
  - Environmental monitoring
  - Energy and infrastructure
  - Natural and man-made resources

Technical Data

• GSD (m) @ 500 km	1.9
• Swath (km) @ 500 km	13.3
• Aperture (m)	0.3
• Focal length (m)	3.45
• F/#	11.5
• Spectral range (µm)	0.5-0.9
• Detector pitch (µm)	13
• Number of pixels	7000
• Max TDI	32/96
• Duty cycle (%)	20
• Peak (imaging) power (W)	30
• Mass (kg)	25

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